Aerospace series — Cable ties for harnesses — Test methods —

Part 404: Low temperature installation

The European Standard EN 4057-404:2006 has the status of a British Standard

ICS 49.060



National foreword

This British Standard was published by BSI. It is the UK implementation of EN 4057-404:2006. This standard, together with BS EN 4057-100:2006, BS EN 4057-201:2005, BS EN 4057-202:2005, BS EN 4057-301:2005, BS EN 4057-302:2006, BS EN 4057-303:2005, BS EN 4057-304:2006, BS EN 4057-305:2005, BS EN 4057-306:2006, BS EN 4057-307:2006, BS EN 4057-401:2006, BS EN 4057-402:2006, BS EN 4057-403 (to be published), BS EN 4057-405:2005, BS EN 4057-406:2006, BS EN 4057-407:2005 and BS EN 4056-001:2006, BS EN 4056-002 (to be published), BS EN 4056-003 (to be published), BS EN 4056-004 (to be published) and BS EN 4056-005 (to be published) supersedes BS G 246:1991 which will be withdrawn upon publication of these standards.

The UK participation in its preparation was entrusted by Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology, to Panel ACE/6/-/8, Aerospace — Installations — Accessories, tools and terminations.

A list of organizations represented on ACE/6/-/8 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2007

© BSI 2007

Amendments issued since publication

Amd. No.	Date	Comments

ISBN 978 0 580 50545 4

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2006

EN 4057-404

ICS 49.060

English Version

Aerospace series - Cable ties for harnesses - Test methods - Part 404: Low temperature installation

Série aérospatiale - Frettes de câblage pour harnais -Méthodes d'essais - Partie 404 : Installation à basse température Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 404: Verarbeitung bei niedriger Temperatur

This European Standard was approved by CEN on 28 October 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 4057-404:2006

Contents		Page
Fore	eword	3
1	Scope	4
2	Normative references	4
3	Apparatus	4
4	Procedure	4
5	Requirements	4

Foreword

This document (EN 4057-404:2006) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the procedure to determine the suitability of cable ties for harnesses for low temperature installation for aerospace applications.

It shall be used together with EN 4057-100.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 4056-001, Aerospace series — Cable ties for harnesses — Test methods — Part 001: Technical specification

EN 4057-100, Aerospace series — Cable ties for harnesses — Test methods — Part 100: General

EN 4057-401, Aerospace series — Cable ties for harnesses — Test methods — Part 401: Loop tensile strength

3 Apparatus

A cold chamber capable of achieving a temperature of – 15 °C.

A tensile tester as described in EN 4057-401.

4 Procedure

Place the test mandrels as described in EN 4057-401 and the specimens in an environment of $(-15 \ _0^0)$ °C for not less than one hour. Whilst still at this temperature mount the specimens on the mandrels in accordance with the requirements of EN 4057-401. Remove from the cold chamber and allow to regain room temperature. Submit the specimens to the loop tensile strength test as specified in EN 4057-401 within two hours of removal from the chamber and record the minimum force to failure.

5 Requirements

The performance shall be achieved as required by the technical specification EN 4056-001.

The minimum force to failure shall be as specified in the product standard.



BSI — British Standards Institution

BSI is the independent national body responsible for preparing British Standards. It presents the UK view on standards in Europe and at the international level. It is incorporated by Royal Charter.

Revisions

British Standards are updated by amendment or revision. Users of British Standards should make sure that they possess the latest amendments or editions

It is the constant aim of BSI to improve the quality of our products and services. We would be grateful if anyone finding an inaccuracy or ambiguity while using this British Standard would inform the Secretary of the technical committee responsible, the identity of which can be found on the inside front cover. Tel: +44 (0)20 8996 9000. Fax: +44 (0)20 8996 7400.

BSI offers members an individual updating service called PLUS which ensures that subscribers automatically receive the latest editions of standards.

Buying standards

Orders for all BSI, international and foreign standards publications should be addressed to Customer Services. Tel: +44 (0)20 8996 9001. Fax: +44 (0)20 8996 7001. Email: orders@bsi-global.com. Standards are also available from the BSI website at http://www.bsi-global.com.

In response to orders for international standards, it is BSI policy to supply the BSI implementation of those that have been published as British Standards, unless otherwise requested.

Information on standards

BSI provides a wide range of information on national, European and international standards through its Library and its Technical Help to Exporters Service. Various BSI electronic information services are also available which give details on all its products and services. Contact the Information Centre. Tel: +44 (0)20 8996 7111. Fax: +44 (0)20 8996 7048. Email: info@bsi-global.com.

Subscribing members of BSI are kept up to date with standards developments and receive substantial discounts on the purchase price of standards. For details of these and other benefits contact Membership Administration.

Tel: +44 (0)20 8996 7002. Fax: +44 (0)20 8996 7001.

Email: membership@bsi-global.com.

Information regarding online access to British Standards via British Standards Online can be found at http://www.bsi-global.com/bsonline.

Further information about BSI is available on the BSI website at http://www.bsi-global.com.

Copyright

Copyright subsists in all BSI publications. BSI also holds the copyright, in the UK, of the publications of the international standardization bodies. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means — electronic, photocopying, recording or otherwise — without prior written permission from BSI.

This does not preclude the free use, in the course of implementing the standard, of necessary details such as symbols, and size, type or grade designations. If these details are to be used for any other purpose than implementation then the prior written permission of BSI must be obtained.

Details and advice can be obtained from the Copyright & Licensing Manager. Tel: +44 (0)20 8996 7070. Fax: +44 (0)20 8996 7553. Email: copyright@bsi-global.com.

BSI 389 Chiswick High Road London W4 4AL